FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 24743-2303US	SERIAL NO. 09/355,705
APPLICANT Köster	
FILING DATE August 7, 1999	GROUP

OIPE JC93 DEC 23 1999 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
SH	AA	4	1	3	9	3	4	6	02/13/79	Rabbani	422	56	11/28/77
	AB	4	5	8	2	7	8	9	04/15/86	Sheldon III *et al.*	435	6	12/18/84
	AC	4	7	5	7	1	4	1	07/12/88	Fung *et al.*	536	27	08/26/85
	AD	4	7	9	7	3	5	5	01/10/89	Stabinsky	435	6	06/13/85
	AE	4	8	0	6	5	4	6	02/21/89	Carrico *et al.*	536	27	09/30/85
	AF	4	8	7	7	8	3	0	10/31/89	Döbeli *et al.*	525	54.3	07/13/87
	AG	4	9	9	4	3	7	3	02/19/91	Stavrianopoulos *et al.*	435	6	07/20/89
	AH	5	0	7	7	2	1	0	12/31/91	Eigler *et al*	435	176	01/13/89
	AI	5	0	8	2	9	3	5	01/21/92	Cruickshank	536	27	12/15/88
	AJ	5	1	4	3	8	5	4	09/01/92	Pirrung *et al.*	436	518	03/07/90
	AK	5	2	3	7	0	1	6	08/17/93	Ghosh *et al.*	525	329.4	01/06/89
	AL	5	2	4	2	9	7	4	09/07/93	Holmes	525	54.11	11/22/91
	AM	5	4	1	0	0	6	8	4/25/95	Coull *et al.*	548	545	10/23/89
	AN	5	4	3	6	3	2	7	07/25/95	Southern *et al.*	536	25.34	03/20/91
	AO	5	4	7	4	8	9	5	12/12/95	Ishii *et al.*	435	6	05/13/93
	AP	5	4	7	8	8	9	3	12/26/95	Ghosh *et al.*	525	329.4	08/05/93
	AQ	5	5	0	3	9	8	0	04/02/96	Cantor	435	6	10/17/94
	AR	5	5	1	2	4	3	9	04/30/96	Hornes *et al.*	435	6	07/06/94
	AS	5	5	4	1	3	1	3	07/30/96	Ruth	536	24.3	11/09/94
	AT	5	5	4	7	8	3	5	8/20/96	Köster	435	6	1/6/94
	AU	5	5	8	2	9	8	1	12/10/96	Toole, *et al.*	435	6	4/28/94
	AV	5	6	0	5	7	9	8	02/25/97	Koster	435	6	03/17/95
	AW	5	6	1	2	4	7	4	03/18/97	Patel	536	27.14	06/30/94
	AX	5	6	3	1	1	3	4	05/20/97	Cantor	435	6	06/05/95

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
SH	AY	5	6	6	3	2	4	2	9/97	Shanker, et al.	525	329.4	01/05/89
	AZ	5	6	8	8	6	4	2	11/18/97	Chrissey *et al.*	435	6	12/01/94
	BA	5	6	9	1	1	4	1	11/25/97	Koster	435	6	06/06/95
	BB	5	7	0	0	6	4	2	12/23/97	Monforte *et al.*	435	6	05/22/95
	BC	5	9	0	0	4	8	1	05/04/99	Lough *et al.*	536	553	11/06/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	Translation No
SH	BD	0	2	5	3	3	0	3	05/24/89	EP A2,A3,B1				X*
	BE	0	3	9	6	1	1	6	11/07/90	EP				
	BF	0	4	5	5	9	0	5	11/13/91	EP				
	BG	3	6	4	4	3	4	6	5/21/87	DE				X*
	BH	8	5	0	4	6	7	4	10/24/85	PCT				
	BI	8	9	0	5	6	1	6	6/29/89	PCT				
	BJ	9	0	0	3	3	8	2	04/05/90	PCT				
	BK	9	0	0	7	5	8	2	07/12/90	PCT				
	BL	9	0	0	1	5	6	4	2/22/90	PCT				
	BM	9	2	0	7	8	7	9	05/14/92	PCT				
	BN	9	2	1	0	0	9	2	06/25/92	PCT				
	BO	9	4	2	1	8	2	2	09/29/94	PCT				
	BP	9	5	3	0	7	7	3	11/16/95	PCT				
	BQ	9	5	3	1	4	2	9	11/23/95	PCT				
	BR	9	6	1	9	5	8	7	06/27/96	PCT				
	BS	9	6	2	9	4	3	1	09/26/96	PCT				
	BT	9	6	3	2	5	0	4	10/17/96	PCT	C12Q	00/168		

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OIPE JC03 DEC 23 1999 PATENT & TRADEMARK OFFICE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	Translation No
SH	BU	9	7	3	7	0	4	1	10/09/97	PCT	C12Q	00/168		
	BV	9	7	4	1	1	3	9	11/06/97	PCT	C07H	19/06		
	BW	9	8	2	0	0	1	9	05/14/98	PCT	C07H	21/00		
	BX	9	8	2	0	0	2	0	5/14/98	PCT				
	BY	9	8	3	3	8	0	8	08/06/98	PCT	C07H	21/00		

*Derwent English language abstract and/or English translation provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SH	BZ	Alderton *et al.*, Magnetic bead purification of M13 DNA sequencing templates, Anal. Biochem. 201:166-169 (1992)
	CA	Amann, T., et al., *Gene, 25*:167-178 (1983).
	CB	Amarnath, V., *et al.*, Chemical synthesis of oligonucleotides, *Chem. Rev., 77*:183-217 (1977).
	CC	Arshady, Reza; Review: Beaded Polymer Supports and Gels, I. Manufacturing Techniques; Journal of Chromatography, 586 (1991); pp.181-197
	CD	Arshady, E, Beaded Polymer Supports and Gels II. Physico-Chemical Criteria and Functionalization, *Journal of Chromatography, 586*(2):199-219 (1991)
	CE	Bannwarth, Solid-phase synthesis of oligodeoxynucleotides containing phosphoramidate internucleotide linkages and their specific chemical cleavage, Helvetica Chimica Acta 71:1517-1527 (1988)
	CF	Batista-Viera *et al.*, A new method for reversible immobilization of thiol biomolecules bsed on solid-phase bound thiolsulfonate groups, App. Biochem and Biotech,31:175-195 (1991).
	CG	Beaucage, S.L., *et al.*, The synthesis of modified oligonucleotides by the phosphoramidite approach and their applications, *Tetrahedron, 49*:6123-94 (1993).
	CH	Berg, P.E., *J. Bacteriol., 146*:660-667 (1981).
	CI	Blum, E., et al., *Biochem. Biophys. J., 29*:113-121 (1994).
	CJ	Bowman, B.H. and Palumbi, S.R. in E.A. Zimmer, R.L. Cann and A.C. Wilson (ed.) *Methods in Enzymology*, Academic Press, New York, Vol. *224*:399-406 (1993).

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OIPE JC63 DEC 23 1999 PATENT & TRADEMARK OFFICE

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SH	CK	Brown, *et al.*, "A single-bead decode strategy using electrospray ionization mass spectrometry and a new photolabile linker: 3-amino-3-(2-nitrophenyl) propionic acid", Mol. Diversity 1:4-12(1995).
	CL	Burnett, W.N., *Anal. Biochem.*, *112*:195-203 (1981).
	CM	Chang, C.N., et al., *Gene*, *44*:121-125 (1986).
	CN	Chen, et al., *J. Bacteriol.*, *173*:4578-4586 (1991).
	CO	Chrisey *et al.*, Fabrication of patterned DNA surfaces, Nucl. Acids. Res. 24:3040-3047 (1996)
	CP	Chrisey *et al.*, Covalent attachment of synthetic DNA to self-assembled monlayer films, Nucl. Acids Res. 24:3031-3039 (1996).
	CQ	Chu, B.C.F. and Orgel, L.E., *Nucleic Acids Res.*, *16*:3671-3691 (1988).
	CR	Damha, Masad J. et al., An improved procedure for derivatization of controlled-pore glass beads for solid-phase oligonucleotide synthesis; Nucleic Acids Research 18(13):3813-3821 (1990).
	CS	Database WPI, Derwent Publication #198721, citing German Patent No. 3644346, Sepn. material for affinity chromatography comprises a crown ether.
	CT	Fujita *et al.*, Surprising lability of biotin-streptavidin bond during transcription of biotinylated DNA bound to paramagnetic beads, BioTechniques 14:608-617 (1993)
	CU	Fürste et al., *Gene, 48*(1):119-31 (1986).
	CV	Gershon, P.D., et al., Stable Chelating Linkage for Reversible Immobilization of Oligohistidine Tagged Proteins in the BIAcore Surface Plasmon Resonance Detector, *Journal of Immunological Methods, 183*:65-76 (1995).
	CW	Ghosh, S.S., et al., *Bioconjugate Chem.*, *1*:71-76 (1990).
	CX	Ghosh, *et al.*, "Covalent attachment of oligonucleotides to solid supports", Nuc. Acids. Res. 15)13):5353-5372 (1987).
	CY	Gildea *et al.*, A versatile acid-labile linker for modification of synthetic biomolecules, Tetrahedron Letters 31:7095-7098 (1990)
	CZ	Hayashi, *et al.*, "Immobilization of Thiol Proteases onto porous poly(vinyl alcohol) beads", Polymer Journal, 25(5):489-497 (1993).
	DA	Hazum *et al.*, A photocleavable protecting group for the thiol function of cysteine, Pept., Proc. Eur. Pept. Symp., 16th, Brunfeldt, K (Ed), pp. 105-110 (1981).

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SH	DB	Heermann, *et al.*, "Liquid-phase hybridization and capture of hepatitis B virus DNA with magnetic beads and fluorescence detection of PCR product", J. of Virol. Methods 50:43-58 (1994).
	DC	Hochuli, E. and Piesecki, S. *Methods*, *4*:68-72 (1992).
	DD	Hochuli, E., et al., *J. Chromatography*, *411*:177-184 (1987).
	DE	Hochuli, E., et al., *BioTechnology*, *6*:1321-1325 (1988).
	DF	Hornes and Korsnes, Magnetic DNA hybridization of oligonucleotide probes attached to superparamagnetic beads and their use in the isolation of Poly(A) mRNA from eukaryotic cells, GATA 7:145-150, (1990)
	DG	Inouye, H. and Beckwith, J., *Proc. Natl. Acad. Sci. USA*, *74*:1440-1444 (1977).
	DH	Köster, H., et al., A Strategy for Rapid and Efficient DNA Sequencing by Mass Spectrometry, *Nature Biotech*, *14*:1123-1128 (1996).
	DI	Köster *et al.*, Polymer support oligonucleotide synthesis--XV[1,2], Tetrahedron 40:102-112 (1984).
	DJ	Köster, H., *et al.*, Some improvements of polymer oligodeoxynucleotide synthesis, *Natural Products Chemistry*, *9*(14):227-37 (1984).
	DK	Leary, J.J., et al., *Proc. Natl. Acad. Sci. USA*, *80*:4045-4049 (1983).
	DL	Leikauf, E., Barnekow, F. and Köster, H., Heterobifunctional Trityl Derivatives as Linking Agents for the Recovery of Nucleic Acids after Labeling and Immobilization, *Tetrahedron*, *51*:3793-3802 (1995).
	DM	Li, L. et al., *J. Am. Chem. Soc.*, *118*:1662-1663 (1996).
	DN	Lund, Vera et al., "Assessment of methods for covalent binding of nucleic acids to magnetic beads, dynabeads, and the characteistics of the bound nucleic acids in hybridization reactions", Nucleic Acids Res. 16(22) (1988).
	DO	McCray and Trentham, "Properties and uses of photoreactive caged compounds", Annu. Rev. Biophys. Biophys. Chem. 18:239-270 (1989)
	DP	Min, Ch. and Verdine, G.L., Immobilized Metal Affinity Chromatography of DNA, *Nucleic Acids Res.*, *24*:3806-3810 (1996).
	DQ	Mitchell, L.G. and Merril, C.R., *Anal. Biochem.*, *178*:239-242 (1989).
	DR	Nikiforov and Rogers, "The use of 96-well polystyrene plates for DNA hybridization-based assays: An evaluatin of different approaches to oligonucleotide immobilization", Anal. Biochm. 227:201-209 (1995).

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SH	DS	O'Donnell *et al.*, High-density, covalent attachment of DNA to siliocn wafers for analysis by MALDI-TOF mass spectrometry, Analytical Chemistry 69:2438-2443 (1997).
	DT	Olejnik, J., Krzymanska-Olejnik, E. and Rothschil, K.J., Photocleavable Biotin Phosphoramidites for 5'-End-labeling, Affinity purification and Phosphorylation of Synthetic Oligonucleotides, *Nucleic Acids Res.*, *24*:361-366 (1996).
	DU	Pon, R., et al., Derivatization of Controlled Pore Glass Beads for Solid Phase Oligonucleotide Synthesis, *Biotechniques, 6*(8):768-770, 773-775 (1988).
	DV	Porath, J., *Protein Express Purif.*, *3*:263-281 (1992).
	DW	Rasmussen *et al.*, "Covalent immobilization of DNA onto polystyrene microwells: The molecules ar eonly bound at the 5' end", Anal. Biochem. 198:138-142 (1991).
	DX	Reese, C.B., *et al.*, Oximate ion promoted unblocking of oligonucleotide phosphotriester intermediates, *Tetrahedron Lett.*, 2727-30 (1978). [missing volume]
	DY	Running and Urdea, "A procedure for productive coupling of synthetic oligonucleotides to polystyrene microtiter wells for hybridization capture", Biotechniques 8:276-277 (1990).
	DZ	Scouten, W.H., et al., Reversible Immobilization of Antibodies on Magnetic Beads, *Analytical Biochemistry, 205*(2):313-318 (1992).
	EA	Senter *et al.*, Novel photocleavable protein crosslinking reagents and their use in the preparation of antibody-toxin conjugates, Photochem. Photobiol. 42:231-237, (1985)
	EB	Sinha, N.D., *et al.*, β-cyanoethyl N,N-dialkylamino/N-morpholinomonochloro phosphoamidites, new phosphitylating agents facilitating ease of deprotection and work-up of synthesized oligonucleotides, *Tetrahedron Lett., 24*:5843-46 (1983).
	EC	Sinha, N.D., *et al.*, Polymer support oligonucleotide synthesis XVIII[1,2]: use of β-cyanoethyl-N,N-dialkylamino-/N-morpholino phosphormidite of deoxynucleosides for the synthesis of DNA fragments simplifying deprotection and isolation of the final product, *Nucleic Acids Res., 12*(11):4539-57 (1984).
	ED	Smith, M.C., et al., *J. Biol. Chem.*, *263*:7211-7215 (1988).
	EE	Southern, E.M., *J. Mol Biol.*, *98*:503-517 (1975).
	EF	Thuong and Asseline, Oligonucleotides attached to intercalators, photoreactive and cleavage agents, Oligonucleotides and Analogues: A Practical Approach, Eckstein, edr., Oxford University Press Ch. 12, pp. 283-308 (1991)
	EG	Tong, X. and Smith, L.M., *Anal. Chem.*, *64*:2672-2677 (1992).

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OIPE JC68 DEC 23 1999 PATENT & TRADEMARK OFFICE

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SH	EH	Uznanski, B., *et al.*, Deoxyribonucleoside 3'-phosphordiamidites as substrates for solid supported synthesis of oligodeoxyribonucleotides and their phosphorothioate and DNA-triester analogues, *Tet. Lett., 28*:3401-04 (1987).
	EI	Valaskovic, G.A., et al., *Science, 273*:1199-1202 (1996).
	EJ	Wang, Solid phase synthesis of protected peptides via photolytic cleavage of the α-methylphenacyl ester anchoring linkage, J. Org. Chem. 41(20):3258-3261 (1976)
	EK	Wong, Ch. 12: Conjugation of proteins to solid matrices, Chemistry of Protein Conjugation and Cross Linking 12:295-317 (1993)
V	EL	Yen *et al.*, Synthesis of water-soluble copolymers containing photocleavable bonds, Makromol. Chem. 190:69-82 (1989)

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